

**Notice of Allowability**

Application No.	Applicant(s)	
10/016,133	KRAEMER ET AL.	
Examiner	Art Unit	
Jorge L Ortiz-Criado	2655	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 19 January 2005.
2.  The allowed claim(s) is/are 1 and 3-41, renumbered as 1-4, 8-11, 13-16, 5-6, 21, 7, 17, 12, 20, 18, 19, 22, 23, 26-34, 39, 35-38, 24,25 and 40 respectively.
3.  The drawings filed on 19 January 2005 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_.
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_.

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1 and 3-41 are allowed.

The following is an examiner's statement of reasons for allowance:

In regard to claim 1, Applicant's claimed invention is deemed allowable over the prior art of record as the prior art fails to teach or suggest either alone or in combination wherein the value of each matrix element is defined as a function of a spacing between memory-centers  $i$  and  $j$  given by  $C_{ij} = f(r') = f(|r_i - r_j|) = f(R_{ij})$  where  $f(r')$  is defined as a cross-talk function, and wherein said cross-talk matrix  $C$  is calculated by applying said cross-talk function to each element of a matrix  $R$  that contains all inter-memory-center spacings  $R_{ij} = r' = |r_i - r_j|$ .

In regard to claim 6, Applicant's claimed invention is deemed allowable over the prior art of record as the prior art fails to teach or suggest either alone or in combination accessing the storage medium with an addressing system and measuring for each memory-center a scalar signal intensity  $I_m$  emitted from a pre-selected region which is centered on the known position of said memory-center, specifically **having an intensity distribution defined by an impulse response of the addressing system and an effective distribution of the signal stored within the addressed memory-center.**

In regard to claim 25, Applicant's claimed invention is deemed allowable over the prior art of record as the prior art fails to teach or suggest either alone or in combination accessing said optical storage medium with an optical addressing system and measuring for each memory-center a total optical intensity  $I_m$  emitted from a pre-selected region which is centered on the known position of said memory-center, specifically **having an optical intensity distribution within a single pre-selected region  $I_0(q)$  defined by a point spread function of the optical addressing system and an intensity distribution of the memory-center itself defined by an optical response of a single memory-center as imaged through an idealized optical addressing system having an infinitely small point spread function.**

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jorge L Ortiz-Criado whose telephone number is (571) 272-7624. The examiner can normally be reached on Mon.-Thu.(8:30 am - 6:00 pm),Alternate Fridays off.

Art Unit: 2655

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris H To can be reached on (703) 305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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DAVID L. OMETZ  
PRIMARY EXAMINER